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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/750,464

12/28/2000

Michael S. Borella

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08/18/2005

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EXAMINER

HAN, CLEMENCE S

ART UNIT

PAPER NUMBER

2665

DATE MAILED: 08/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/750,464

Applicant(s)

BORELLA ET AL.

Examiner

Clemence Han

Art Unit

2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 June 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-5,7-13 and 15-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-5,7,9-13 and 15-21 is/are rejected.
- 7) ☒ Claim(s) 8 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 17-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
3. Claim 17 recites the limitation "said first set of one or more globally unique port numbers" in line 5. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claim 1, 3-5, 7, 9-13 and 15-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Borella et al. (US 6,697,354).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention “by another,” or by an appropriate showing under 37 CFR 1.131.

Regarding to claim 1, Borella teaches a method for address management of mobile nodes, said method comprising the steps of: receiving a registration request message from a first mobile node (Column 1 Line 46-47); assigning a first range of globally unique port numbers to said first mobile node (See Figure 5, Column 7 Line 44-45 and Column 9 Line 20-24); and transmitting said first range of globally unique port numbers to said first mobile node (Column 11 Line 36-38).

Regarding to claim 3, Borella teaches assigning a network address to said first mobile node; and transmitting said network address to said first mobile node (Column 7 Line 9-10).

Regarding to claim 4, Borella teaches said network address is an Internet Protocol (IP) address (Column 7 Line 10).

Regarding to claim 5, Borella teaches said network address can be shared with a second mobile node (Column 7 Line 9-10).

Regarding to claim 7, Borella teaches assigning a second range of globally unique port numbers to said second mobile node, wherein said first and second ranges are disjoint (Column 7 Line 44-45, Column 11 Line 15-21).

Regarding to claim 9, Borella teaches said registration request message includes a care-of address for said first mobile node (step 262 in Figure 18).

Regarding to claim 10, Borella teaches associating said care-of address with said first range of globally unique port numbers (step 262 in Figure 18).

Regarding to claim 11, Borella teaches assigning a network address to said first mobile node (Column 7 Line 9-10); and associating said care-of address with said network address and said first range of globally unique port numbers (step 262 in Figure 18).

Regarding to claim 12, Borella teaches receiving data packets destined for said network address and a port number in said first range of globally unique port numbers (Column 25 Line 24-30); and forwarding said data packets to said care-of address (Column 25 Line 65 – Column 26 Line 5).

Regarding to claim 13, Borella teaches a system for address management of mobile nodes, said mobile nodes including at least a first mobile and a second

mobile node, said system comprising: a home agent 278, said home agent transmitting registration reply messages in response to valid registration request messages; and a home agent database 118 accessible by said home agent, said home agent database containing at least a first data record and a second data record, said first data record identifying a first network address and a first range of globally unique port numbers for said first mobile node, said second data record identifying said network address and a second range of globally unique port numbers for said second mobile node. wherein said first and second sets are disjoint (Column 11 Line 15-21).

Regarding to claim 15, Borella teaches said first data record includes a first care-of address for said first mobile node, said first care-of address being different from said first network address (step 262 in Figure 18).

Regarding to claim 16, Borella teaches said network address is an Internet Protocol (IP) address (Column 7 Line 10).

Regarding to claim 17, Borella teaches a foreign agent 288, coupled to said home agent 278 via an intermediate network; and a foreign agent database 118 accessible by said foreign agent, said foreign agent database containing a visitor data record for said first mobile node, said visitor data record including said

network address and said first set of one or more globally unique port numbers for said first mobile node (Column 11 Line 15-21).

Regarding to claim 18, Borella teaches said visitor data record includes a local address of said first mobile station (Column 23 Line 53-55) .

Regarding to claim 19, Borella teaches said care-of address station is an Internet Protocol (IP) address (296 in Figure 19).

Regarding to claim 20, Borella teaches said first care-of address is an external IP address associated with said foreign agent (296 in Figure 19).

Regarding to claim 21, Borella teaches said visitor data record includes an IP address of said home agent (step 258 in Figure 18).

Allowable Subject Matter

6. Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments with respect to claim 1, 3-5, 7-13 and 15-21 have been considered but are moot in view of the new ground(s) of rejection.

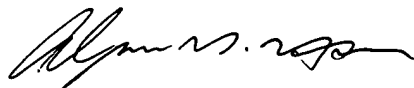
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Clemence Han whose telephone number is (571) 272-3158. The examiner can normally be reached on Monday-Thursday 7 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C.H.
Clemence Han
Examiner
Art Unit 2665



ALPUS H. HSU
PRIMARY EXAMINER